Appendix A: CV for Vincent RONFARD, Bioengineer and Ph.D.

Vincent Ronfard
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Education

1993: Ph.D. in Cell Biology, University of Compiègne, France
1988: Graduate of Engineering in Agriculture, University of Lille, France

Work Experience

2006-

VP of Research and Development Organogenesis Inc., (Canton, MA- USA)
Built a Research and Development team of 28 researchers. Elaborates the strategy of research and set up the concept of platform technologies. Interacts cross-functionally with all department of the company (manufacturing, quality, regulatory, business development and, marketing). Uses project mangement tools and resources to lead R&D department.

2004- 2006

Director of reconstructed skin worldwide (L'Oreal Life Sciences Paris)
Associate Vice-President L'Oreal USA
Managing global L'Oreal research on skin enginreering covering US, China and Europe. including 40 researchers. Developped the use of reconstructed skin as a tool to evaluate compounds. Interact with Life Science research to develop new concepts in skin biology.

2003- 2004

Director of Tissue Engineering Development and Business Strategy, L'Oreal USA
Link between US and Europe, Development of collaboration with Academia.

2000- 2003

Director of Research, Modex Therapeutics Ltd (Lausanne-Switzerland)
US-based (Boston), managing a research group to develop cell-based methods and small therapeutic molecules for treating skin wounds and skin diseases. This work includes IDE, IND packages, clinical trials, and research/business collaborations.

1997- 2000

Senior Staff Scientist, Organogenesis Inc. (Canton, MA-USA).
Managed the Cell Biology Development group. Project leader for the design and development of a new generation of bioengineered tissue constructs, evaluation in animals (mice and pig), and planning for future clinical applications.

1996-1997

Director of Development, Biopredic Int. (Rennes-France)
Developed cell culture systems (hepatocytes, keratinocytes, fibroblasts) and animal models (liver perfusion, hair regrowth on mice) to test products from the chemical, pharmaceutical and cosmetic industries.

1990-1995:

Research Scientist, Ecole Normale Supérieure, Department of Biology (Paris-France)

*Developed a fibrin substratum to improve transplantability of human cultured epithelium.

*Evaluated human epidermal keratinocyte stem cells cultivated on a fibrin substratum for the treatment of burn wounds in a clinical trial with seven patients.

*Developed a biological test to study the motility of human keratinocyte colony-forming cells.

1988-1990:

Assistant Director, Blood Transfusion Center, Laboratory of Cell Engineering (Lille-France)

*Developed a fibrin glue (Biocol^{R}-Lille) for skin wound repair in collaboration with the Burn Unit and DermatologyService of the Lille University Hospital.

* Developed an immuno-hematology test for blood group typing and a serodiagnostic test for

autoimmune diseases (now marketed by Diagast laboratories-Lille-France).

*Supervised large-scale culture of mammalian cells for production of monoclonal antibodies and recombinant proteins.

1985-1988:

School of Agricultural Engineering, University of Lille, France

1982-1985:

Volunteer, Association Française des Volontaires du Progrès (French version of the Peace Corps) (Dapaon-Togo, Africa). Worked on agricultural development and educated 660 farmers.

1980-1982 :

Farmer (Ronq, France)

Publications

Ronfard, V., Broly, H., Mitchell, V., Galizia, J.P., Hochart, D., Chambon, E., Pellerin, P., and Huart, J.J. (1991) *"Use of human keratinocytes cultured on fibrin glue in the treatment of burn wounds."* Burns 17,181-184.

Ronfard, V. (1993) *"Utilisation d'un substrat de fibrine pour la culture et la transplantation des kératinocytes humains."* Ph.D. thesis.

Rheinwald, J.G., Dickson, M.A., Hahn, W.C., Weinberg, R.A., Ronfard, V., Li, F.P. and Wu, J.Y. (2000) *"Human keratinocytes that express hTERT and also bypass a p16INK4a-enforced mechanism that limits lifespan become immortal yet retain normal growth and differentiation characteristics"*. Molecular and Cellular Biology, Vol. 20, No.4, p.1436-1447.

Ronfard, V., Rives, J.M., Neveu, Y., Carsin, H., and Barrandon, Y. (2000) *"Long term regeneration of human epidermis on third degree burns transplanted with autologous cultured epithelium grown on a fibrin matrix."* Transplantation, Dec 15;70(11):1588-98.

Ronfard, V. and Barrandon, Y. (2001) *"Migration of keratinocytes through tunnels of digested fibrin."* Proc Natl Acad Sci U S A. Apr 10;98(8):4504-9.

Ronfard V, Barrandon Y. (2001) *"Keratinocytes Colony-Forming Cells as Determinants of the Transplantability of Human squamous Epithelium Cultivated on a Fibrin Substrate"* . Geaorg Thieme Verlag , Horch, Munster, Achauer edts pp. 52-59.

Guerret S, Govignon E, Hartmann DJ, Ronfard V. (2003) *"Long-term remodeling of a bilayered living human skin equivalent (Apligraf) grafted onto nude mice: immunolocalization of human cells and characterization of extracellular matrix."* Wound Repair Regen. Jan-Feb;11(1):35-45.

Mis B, Rolland E, Ronfard V. (2004) "*Combined use of a collagen-based dermal substitute and a fibrin-based cultured epithelium: a step toward a total skin replacement for acute wounds."* Burns. Nov;30(7):713-9.

Ronfard V. (2007) *"Allogenic cell therapy to treat skin Loss"* Cell Therapy, Lilly edts 11:131-141.

Ronfard V., Williams T. (2009) *"Developments in cell based therapy for wounds"* Advances in wound care: volume 1 (accepted)

Govignon E. and Ronfard V. *"Effect of growth factors secreted from bioengineered living tissue on the migration and proliferation of human skin cells."* (to be submitted).

Pouyani T, Ronfard V, Scott PG, Dodd CM, Ahmed A, Gallo RL, Parenteau NL."*De novo synthesis of human dermis in vitro in the absence of a three-dimensional scaffold."* In Vitro Cell Dev Biol Anim. 2009 Sep;45(8):430-41.

Ronfard V., Williams T. (2009) *"Developments in cell based therapy for wounds"* Advances in wound care: volume 1 (accepted)

Govignon E. and Ronfard V. *"Effect of growth factors secreted from bioengineered living tissue on the migration and proliferation of human skin cells."* (submitted).

Patents

Broly H. and Ronfard V. (1988) *"Biological support for cell cultures, constituted by a coagulated mixture of a concentrate of plasma proteins and thrombin, its use for keratinocytes culture, their transport, and their applications for therapeutic use."* Patent # FR 88 15950, EP 0373044B1, US 005474770, Japan, Canada.

Ronfard V. and Barrandon Y. (1995) *"Method for evaluating keratinocyte migration"* Patent # WO 97/25617.

Murphy M. and Ronfard V. (1999) *"Bioengineered tissue constructs and methods for producing and using thereof."* Patent # WO 00/29553.

Ronfard V., Tuck A., Wilkins L. (1999) *"Skin care compositions and treatments".* Patent # WO/2001/014527

Ronfard V., Limat A., Huntziker T. (2001). *"Methods and compositions for tissue regeneration"* Patent PCT/IB2003/004506

Ronfard V. O'Reilly, C. (2008) *"Temperature-responsive microcarrier"*. WO/2008/005520.

Communications

More than 30 oral presentations or posters in international scientific meeting around the world over the past 15 years.